

# New York State Department of Transportation

## Yellow Flag NB2222W001

By: Sahadeo Bhagwandin  
Flag Date: March 25, 2022

Superseding Information:  
This flag supersedes: YF NB2197W025

### Structure Information

**BIN:** 1065318  
**Feature Carried:** 278I278IX2M23027  
**Feature Crossed:** 6TH AVENUE  
**Orientation:** 8 - NORTHWEST  
**Region:** 11 - NEW YORK CITY  
**County:** KINGS  
**Political Unit:** City of NEW YORK  
**Approximate Year Built:** 1962  
**Posted Load Matches Inventory :** Yes  
**Bridge Load Posting (Tons) :** Not Posted for Load  
**Primary Owner:** New York State Department of Transportation  
**Primary Maintenance Responsibility:** 12 - State - Subcontracted to another Party  
**Typical or Main Span Type:** 3 - Steel, 02 - Stringer/Multi-Beam or Girder  
This Bridge is not a Ramp  
**Number of Spans:** 322

### Verbal Notification Information

**Person Notified:** Heinz Joachim, P.E.  
**Date:** March 25, 2022 10:00:00 AM  
**Of:** NYSDOT Region 11

### Signature Information

**Signature:** Sahadeo Bhagwandin, P.E. 088239-1  
**Date:** April 05, 2022  
**Reviewed By:** Robert Kemp  
**Date:** April 05, 2022

**Attachments:** 7

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 220</b>			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

### Flagged Condition Description

Yellow Flag No. NB2222W001 supersedes Yellow Flag No. NB2197W025

Location: Span 220, Girder G19 at Pier 220

Description: The right connection angle at Girder G19 connection to the pier cap at Pier 220 exhibits a 4"H x ½" W vertical corrosion crack at the upper fillet section, 5"H x ½" W vertical corrosion crack at the center and 1.75"H x ½" W vertical corrosion crack at the lower fillet section. All with no significant changes from the previous inspection (Photos 2 and 3). The remaining 3.5" of the connection angle height exhibits up to 90% section loss (no change from previous).

The left connection angle exhibits two corrosion holes at the top measuring 3" W x 1"H and ½" W x 1"H (no change from previous) (Photo 4). Additionally, there is a 5" L x 2.5" H corrosion hole at the base of the angle (previously noted to be 3.75"L x 2.5"H) (Photo 2). The remaining area of the left connection angle exhibits up to 30% section loss.

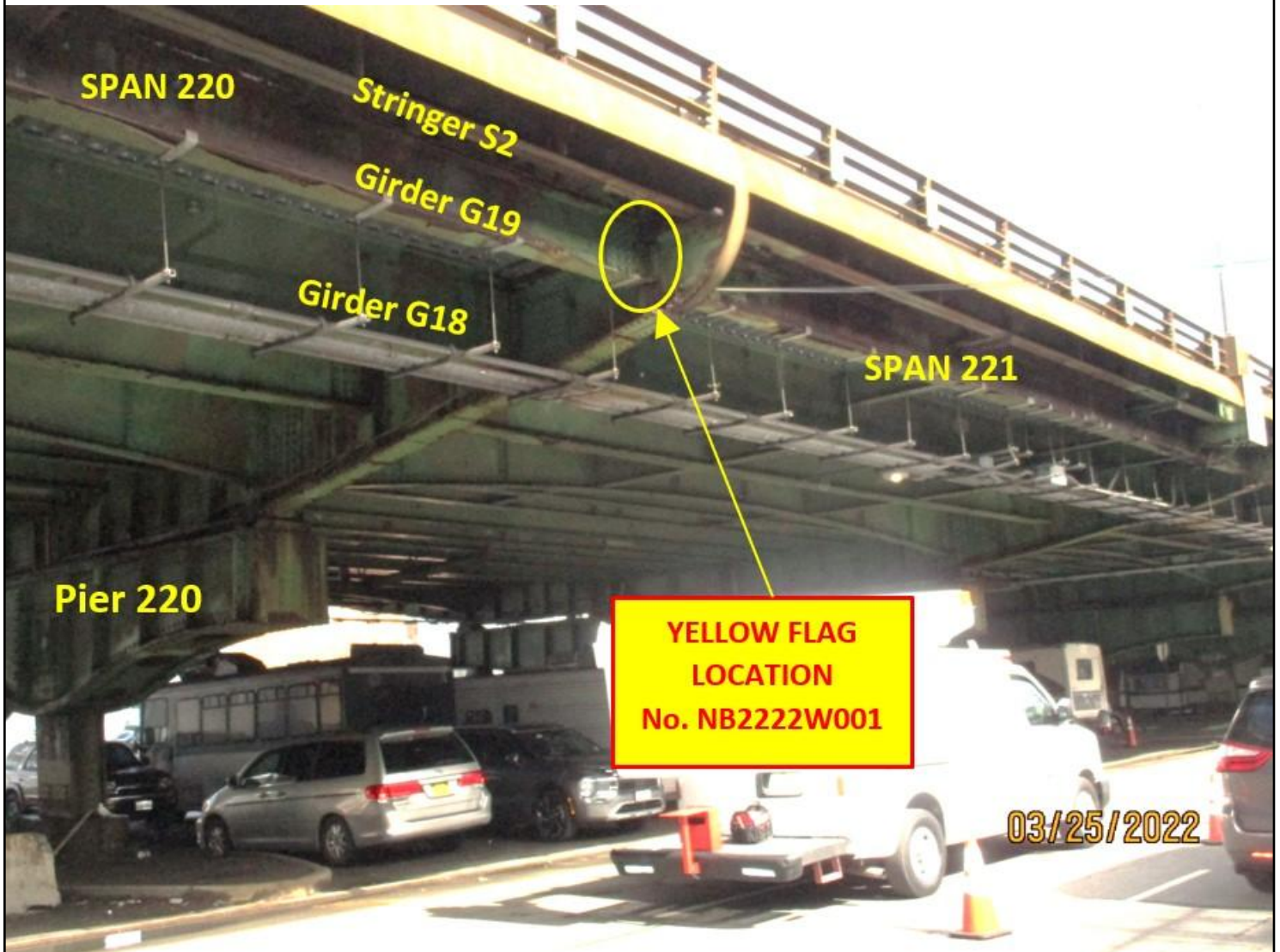
**Notes:**

1. The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 19.5" inches and thickness of 0.606 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk. All dimensions were measured in the field.
2. The adjacent Girder G18, is 5'-5" on center, has repair plates and is in good condition.
3. The adjacent Stringer S2, approximately 24" on center, acts as a support for the railing and curb area above and is in good condition.
4. A double left lane closure on 3rd Avenue Eastbound between 29th and 27th streets with shadow vehicle and a 30' bucket truck is required to access the flagged location.

**Flag Photographs**

Photo Number: 1

Photo Filename: Photo 1-4438-edited.jpg

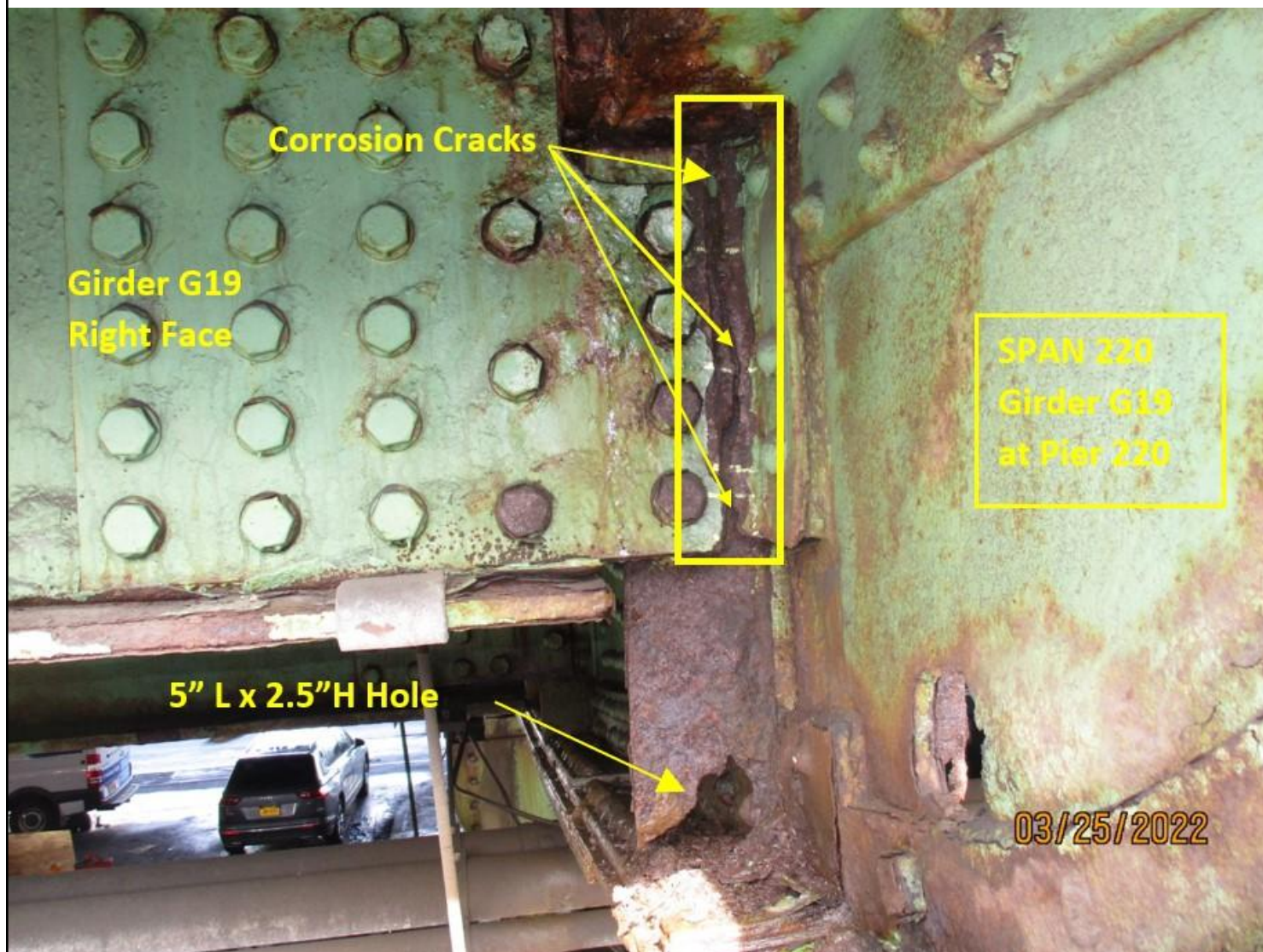


**Attachment Description:** Span 220, Girder G19 at Pier 220. General view of crack location at pier cap connection. Looking end left.



Photo Number: 2

Photo Filename: Photo 2-4416.jpg

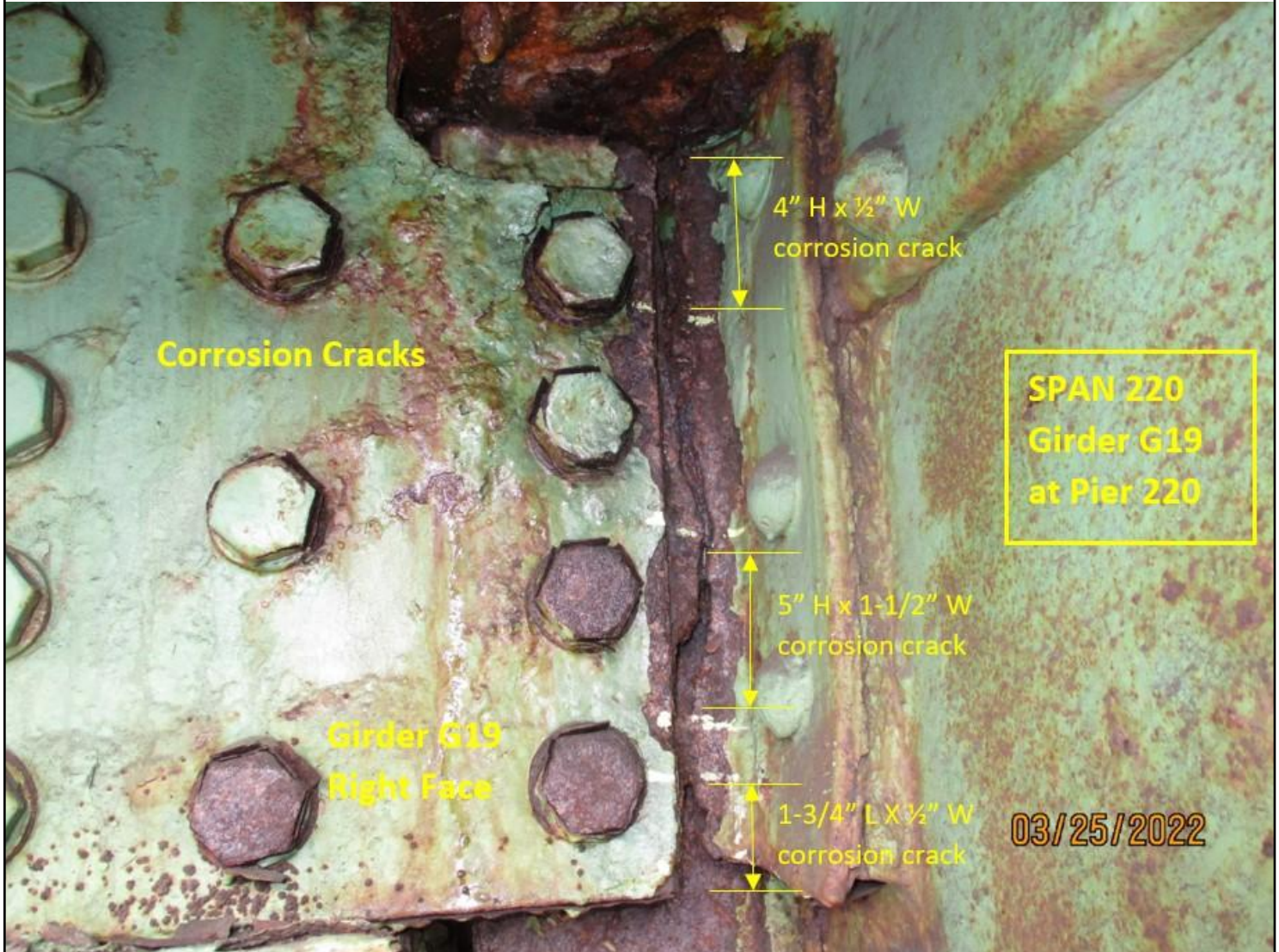


**Attachment Description:** Span 220, Girder G19 at Pier 220. General view of the flagged location showing severe corrosion and cracking in the right connection angle of the girder to the pier cap and corrosion hole at the base of the connection angle. Looking left.



Photo Number: 3

Photo Filename: Photo 3-4429.jpg

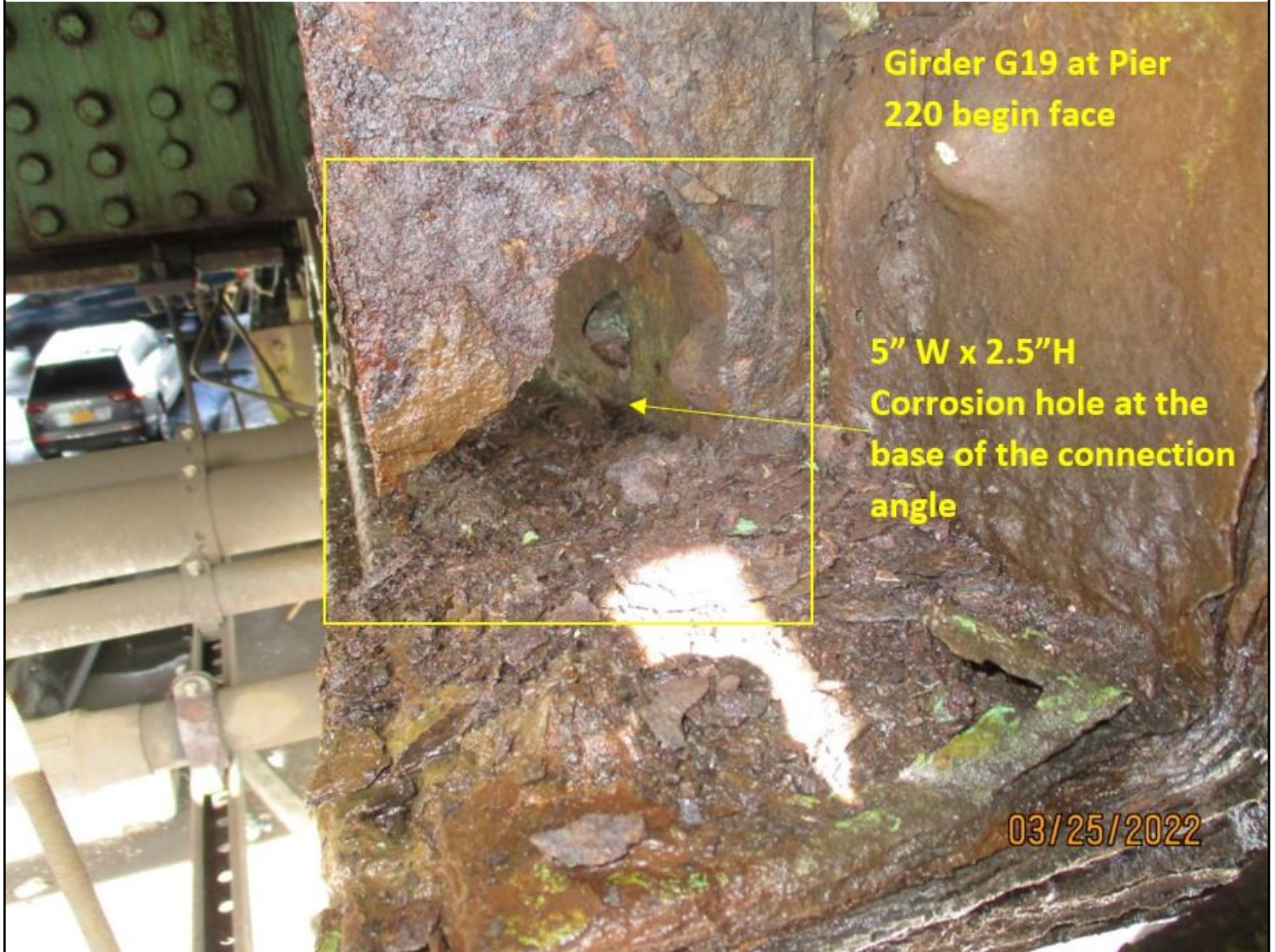


**Attachment Description:** Span 220, Girder G19 at Pier 220. Close-up view of the flagged location showing severe corrosion and cracking in the right connection angle of the girder to the pier cap. Looking left.



Photo Number: 4

Photo Filename: Photo 4-4421.jpg

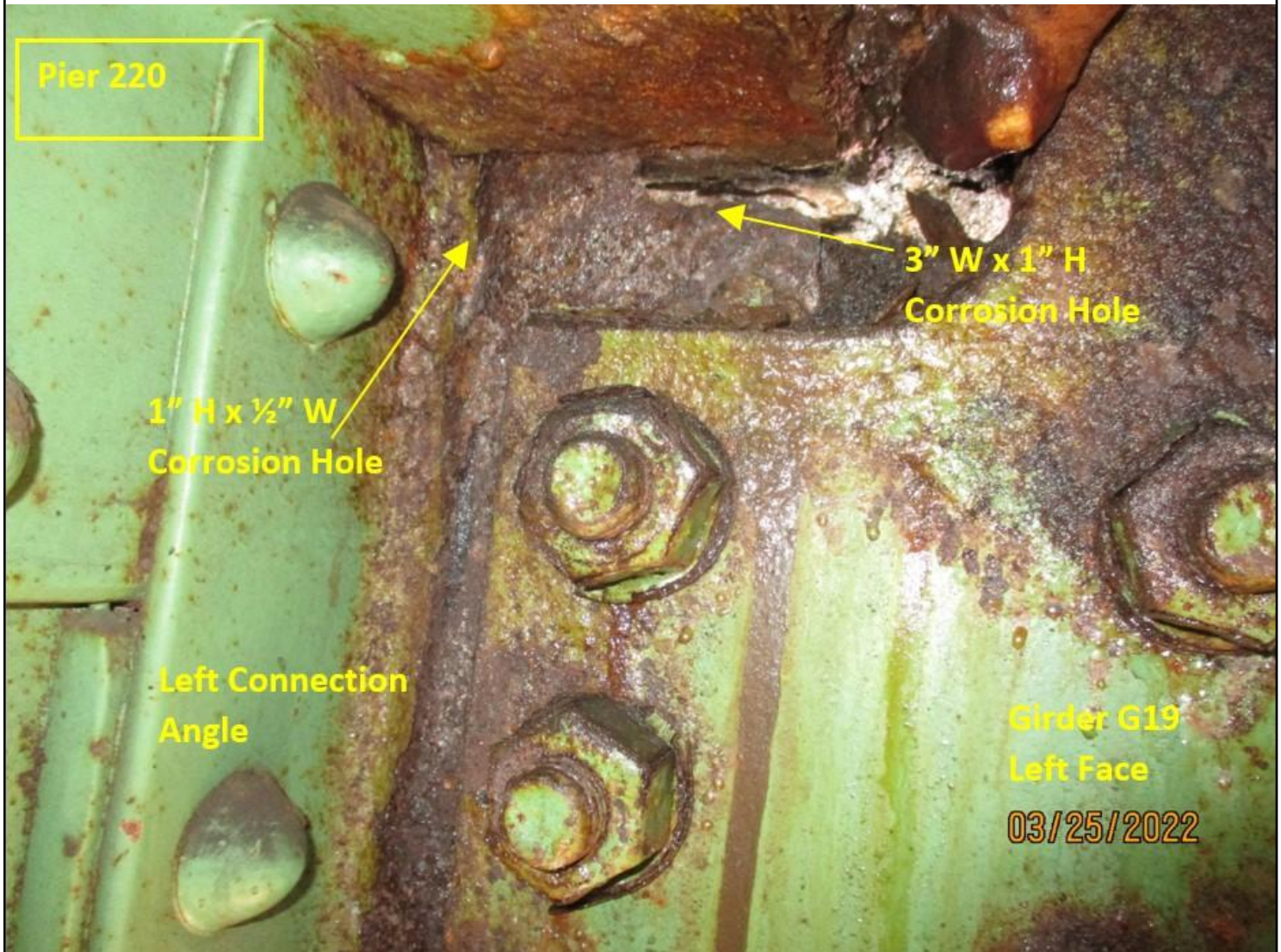


**Attachment Description:** Span 220, Girder G19 at Pier 220. Close-up view of the flagged location showing 5" L x 2.5"H corrosion hole in the base of the connection angle. Looking left.



Photo Number: 5

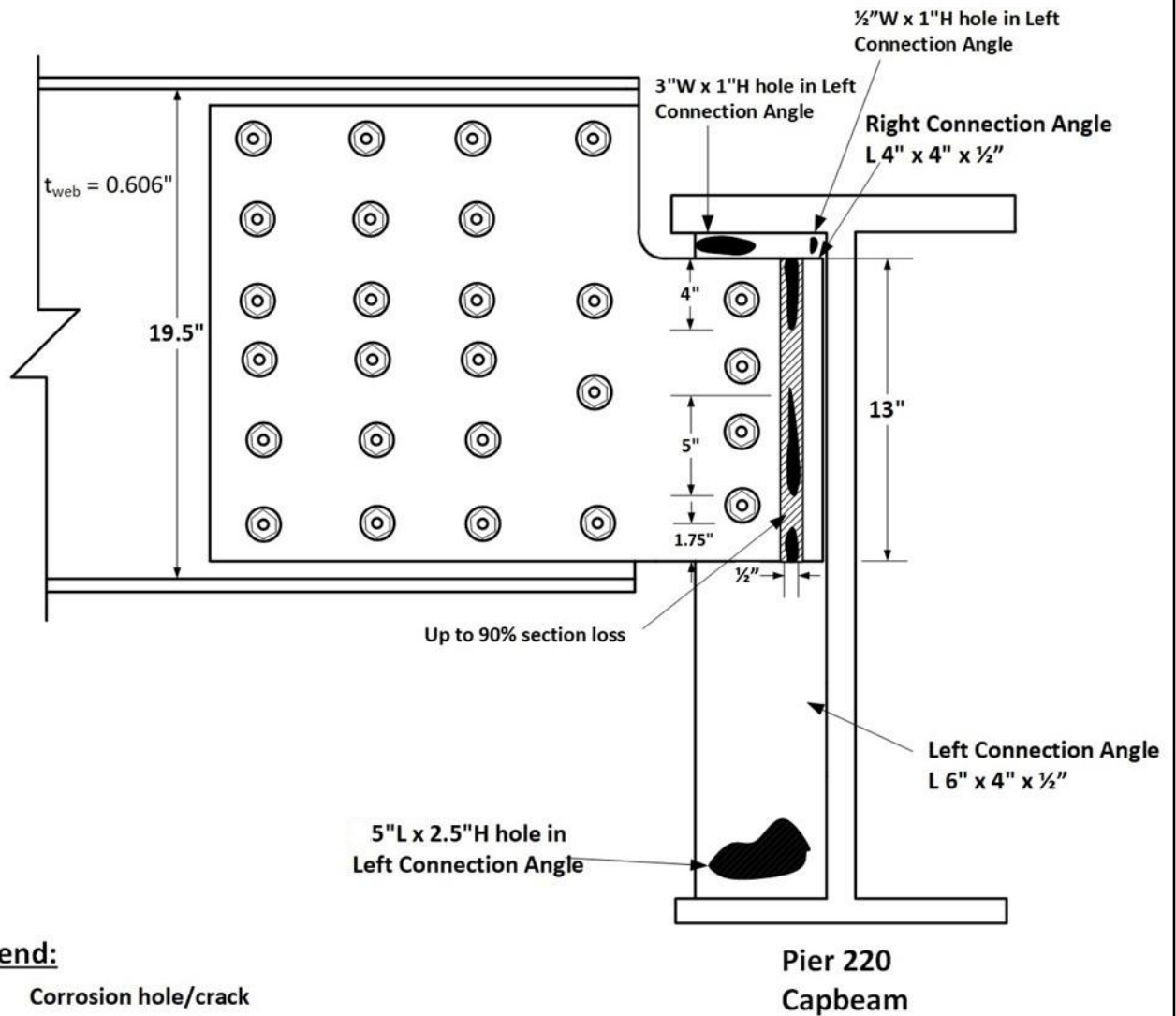
Photo Filename: Photo 5-4422.jpg



**Attachment Description:** Span 220, Girder G19 at Pier 220. Close-up view of the flagged location showing severe corrosion and cracking in the left connection angle of the girder to the pier cap. Looking end right.

Photo Number: 6

Photo Filename: Picture1.jpg

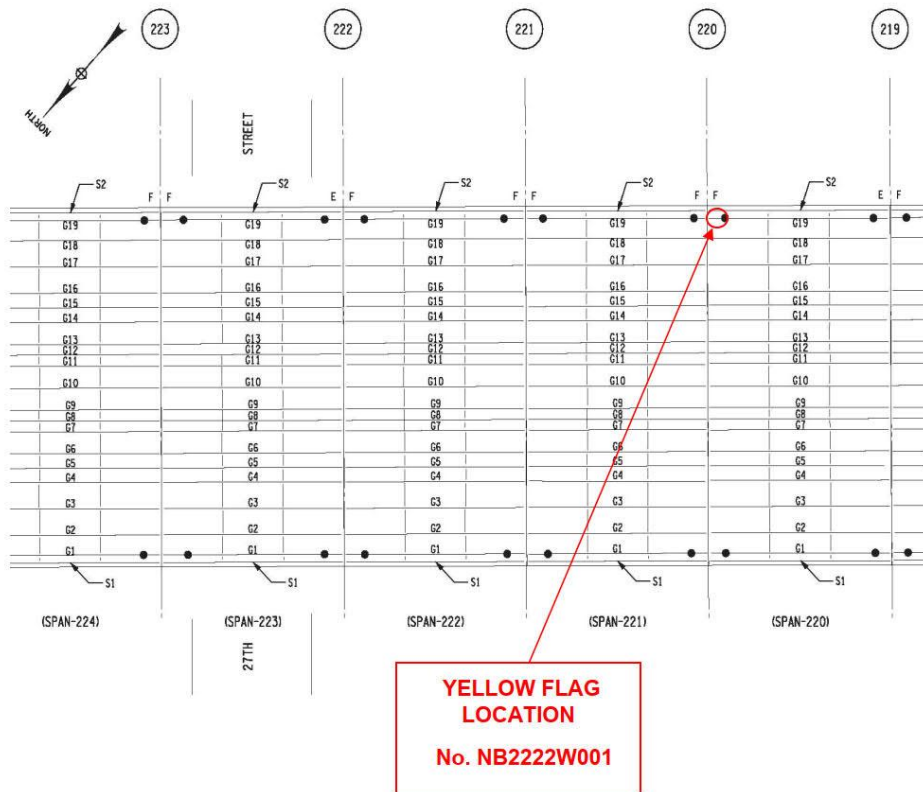


**Attachment Description: NB2222W001 Span 220 G19 at Pier 220 Sketch**



Photo Number: 7

Photo Filename: YF NB2222W001 Framing Plan.jpg



**Attachment Description: NB2222W001 Span 220 G19 at Pier 220 Framing Plan**